FIG. 1

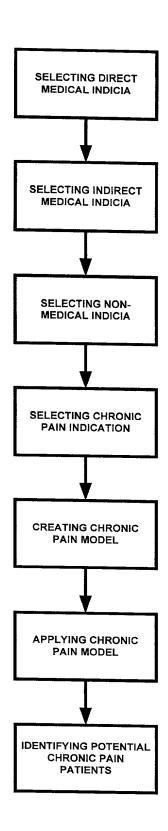


FIG. 2

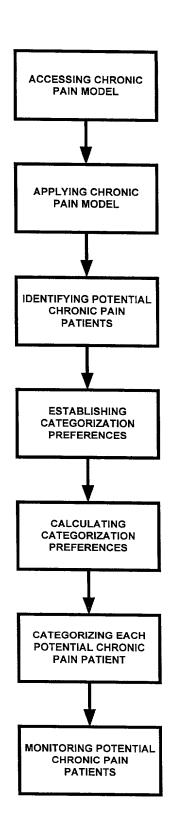


FIG. 3

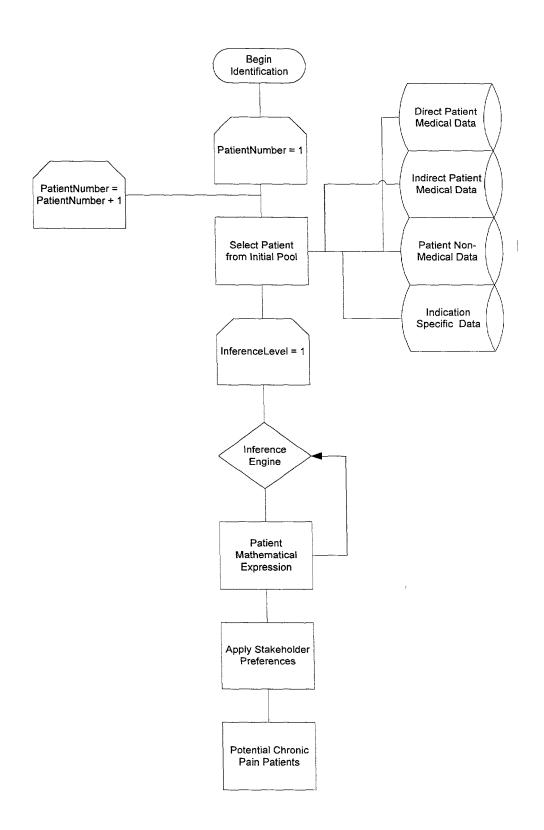


FIG. 4

1. ICD-9-CM "Specific" Lumbar Spine Diagnoses Code 2. ICD-9-CM "Non-specific" Generalized Pain Syndrome Diagnoses Codes 3. ICD-9-CM Diagnosis Code Identifying a Co-morbidity Commonly 4. ICD-9-CM Procedure Code Identifying a Co-morbidity Commonly 4. ICD-9-CM Procedure Codes Indicating the Condition Diagnosis Code Clearly 5. ICD-9-CM Procedure Codes Indicating the Condition is Related to a X Known Acute Condition to a Non-Lumbar Spine Care Known Acute Condition (e.g. post-operative surgical pain) 6. CPT Codes Indicating the Condition is Related to a Known Acute Condition (e.g. post-operative surgical pain) 7. ICD-9-CM Procedure Codes Relating to Lumbar Spine Pain 6. CPT Codes Identifying Lumbar Spine Pain Establishing a X 8. ICD-9-CM Procedure Codes Relating to Lumbar Spine Pain Pattern of Chronicity (time and homogeneity) 10. CPT Codes Identifying Lumbar Spine Pain-related Procedures 11. CPT Codes Identifying Lumbar Spine Pain-related Procedures 12. CPT Codes Identifying Lumbar Spine Pain-related Procedures 13. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant indicating dosage, frequency, length of time, combinations identifying pain treatment of Chronicity 14. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant indicating dosage, frequency, length of time, combinations consistent with chronic spine pain treatment indicating dosage, frequency, length of time, combinations consistent with chronic spine pain treatment indicating dosage, frequency, length of time, combinations consistent with chronic spine pain treatment indicating dosage, frequency, length of time, combinations consistent with chronic spine pain treatment indicating dosage, frequency, length of time, combinations consistent with chronic spine pain treatment indicating dosage, frequency, length of time, combinations consistent with	Direct Medical Indicia	Positive	Possible	Probable	Possible
bing a X X X X X X X X X X X X X X X X X X		In	Out	In	In
hing a X X X X Ishing a X X X X X X X X X X X X X X X X X X	1. ICD-9-CM "Specific" Lumbar Spine Diagnoses Code			×	
hing a X X X X Ishing Ishing X X X X X X X X X X X X X X X X X X X				X	
hing a X X Kith X X X Kith X X X Kith X X X X X X X X X X X X X X X X X X X	3. ICD-9-CM Diagnosis Code Identifying a Co-morbidity Commonly Associated with Lumbar Spine Injury				X
hing a X X X K Lishing lishing with X X X X X X X X X X X X X X X X X X X	1		×		
hing a X X X lishing lishing x X x with X X x with X X x with					
hing a X X X Ishing Ishing X X with X X X X X X X X X X X X X X X X X X X			×		
hing a X X lishing t with x x x x x x x x x x x x x	Known Acute Condition (e.g. post-operative surgical pain)				
hing a X lishing t with X X X X X X with			×		-
hing a X lishing t with	Condition (e.g. post-operative surgical pain)				
hing a X	l				X
hing a X lishing t with x x x x x x x x x x x x	1				X
lishing t with X X X with	9. ICD-9-CM Procedure Codes Relating to Lumbar Spine Pain Establishing a	×			
lishing t with	Pattern of Chronicity (time and homogeneity)				
lishing t with X X with X	10. CPT Codes Identifying Lumbar Spine Care-related Procedures				X
ishing t with	11. CPT Codes Identifying Lumbar Spine Pain-related Procedures			X	
l with X with					
g X with	13. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant				×
g X with	indicating dosage, frequency, length of time, combinations consistent with				
g X with	spine pain treatment				
g with	14. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant				X
with	indicating dosage, frequency, length of time, combinations identifying		-		-
with	patient as being at risk of developing a chronic lumbar pain condition				
5	15. Drug Prescription Codes for opioid, non-steriodal or muscle relaxant indicating dosage frequency length of time combinations consistent with	×	_		
	5	·· ,	-		

FIG. 5a

Direct Medical Indicia	Positive	Possible	Probable	Possible
	In	Out	In	In
16. Emergency Room Visits (with ICD-9-CM, CPT or Drug Codes, or test results) Indicating a Lumbar Spine Condition				×
17. Emergency Room Visits (with ICD-9-CM, CPT or Drug Codes, or test			X	
results) Indicating a Lumbar Spine Pain Condition				
18. Emergency Room Visits (with ICD-9-CM, CPT or Drug Codes, or test	X			
results) Establishing the Chronicity of a Lumbar Spine Pain Condition				
(time and pattern or homogeneity)				
19. Hospitalizations Visits (with ICD-9-CM, CPT or Drug Codes, or test				×
results) Indicating a Lumbar Spine Condition				
20. Hospitalizations Visits (with ICD-9-CM, CPT or Drug Codes, or test			×	
results) Indicating a Lumbar Spine Pain Condition		_		
21. Hospitalizations Visits (with ICD-9-CM, CPT or Drug Codes, or test	×			
results) Establishing the Chronicity of Lumbar Spine Pain Condition (time				
and pattern or homogeneity)				
22. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test				
results) Indicating a Lumbar Spine Condition				
23. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test				×
results) Indicating a Lumbar Spine Pain Condition				
24. Physician Office Visits (with ICD-9-CM, CPT or Drug Codes, or test	×			
results) Establishing the Chronicity of a Lumbar Spine Pain Condition			-	
(time and pattern or homogeneity of complaint)				
25. Rehabilitation or Palliative Care ICD-9-CM Procedure Codes				×
26. Telephone Consultation (with documentation relating to lumbar spine pain condition)				×
27 (Coded Trainma (related test result monordium ata)				A
21. Couch Mannia (March 153111, procedure, cit.)				<

FIG. 5b

1	Direct Medical Indicia	Maximum	Docitive In	Probable In	Possible In
Daily Dose 12 tabs 12 tabs 12 tabs 291 days 16 tabs 16 tabs 291 days 291 days 16 tabs 16 tabs 291 days 6 tabs 6 tabs 291 days 3 tabs 3 tabs 3 tabs 5 tabs 6 tabs 6 tabs 6 tabs 291 days 12 tabs 12 tabs 12 tabs 291 days 8 tabs 8 tabs 8 tabs 8 tabs 6 tabs 6 tabs 6 tabs 6 tabs 6 tabs 6 tabs 6 tabs 6 tabs	Drug Product	Recommended	(120 day timeframe)	(120 day timeframe)	(120 day timeframe)
12 tabs		Daily Dose			
12 tabs	Orion The Counter Non-Narcotic Analoesic Agents				
18 tabs	OVC. The Commer registration of the commercial o	12 tabs	12 tabs	<12 tabs	<12 tabs
18 tabs	Acetaminophen (1) tenor)		≥91 days	≥91 days	<91 days
16 tabs	7300	18 tabs	18 tabs	<18 tabs	<18 tabs
16 tabs	Aspirin 322mg		≥91 days	≥91 days	<91 days
>91 days 6 tabs 6 tabs 3 tabs 3 tabs 291 days 51 days 51 days 51 days 51 days 51 days 71 days 72 days 73 tabs 74 days 75 days 75 days 76 tabs 76 tabs 77 8 tabs 78 tabs 79 days 70 6 tabs 70 6 tabs 70 6 tabs 70 6 tabs 71 days 72 days 73 days 74 days 75 days 76 dabs	Thurse for Moma (Motrin)	16 tabs	16 tabs	<16 tabs	<16 tabs
6 tabs 6 tabs 5 tabs 291 days 3 tabs 3 tabs 291 days 5 tabs 5 tabs 5 tabs 6 tabs 6 tabs 6 tabs 6 tabs 12 tabs 12 tabs 18 tabs 8 tabs 291 days 291 days 8 tabs 291 days 291 days 8 tabs 291 days 291 days 10 tabs 10 tabs 6 tabs 6 tabs 10 tab	Touploien 200mg (month)		≥91 days	≥91 days	<91 days
6 tabs 6 tabs 291 days 3 tabs 3 tabs 3 tabs 291 days 591 days 591 days 12 tabs 6 tabs 12 tabs 12 tabs 13 tabs 291 days 14 tabs 8 tabs 15 tabs 8 tabs 16 tabs 8 tabs 17 8 tabs 8 tabs 18 tabs 8 tabs 19 6 tabs 6 tabs 10 6 tabs 6 tabs	Solve Shorts Amondo were a first that the first tha				
3 tabs 3 tabs 3 tabs 3 tabs 291 days ≥91 days (tabs 6 tabs 6 tabs 291 days 12 tabs 12 tabs 12 tabs 18 tabs 8 tabs 291 days 291 days 18 tabs 291 days 8 tabs 8 tabs 10 tabs	Soulty are 1988 the Francisco of State	6 tabs	6 tabs	<6 tabs	<6 tabs
3 tabs 3 tabs ≥91 days (a tabs 6 tabs 591 days 12 tabs 12 tabs 12 tabs 13 tabs 18 tabs 291 days (a tabs 8 tabs 8 tabs 10	Saisaiaic 200111g (1713aicta)		≥91 days	≥91 days	<91 days
≥91 days	Did followid	3 tabs	3 tabs	<3 tabs	<3 tabs
6 tabs 6 tabs 5 tabs 291 days 12 tabs 291 days 291 days 291 days 291 days 291 days 291 days 8 tabs 8 tabs 291 days	Diliunisai 200mig (Dologia)		≥91 days	≥91 days	<91 days
6 tabs 6 tabs 291 days 12 tabs 12 tabs ≥91 days 18 tabs 18 tabs ≥91 days 8 tabs ≥91 days 2 tabs 8 tabs 1) 8 tabs 8 tabs 1) 6 tabs 6 tabs t) 6 tabs 6 tabs	China and Palata Analosa Abents				
≥91 days 12 tabs 12 tabs 12 tabs ≥91 days 18 tabs ≥91 days 8 tabs 8 tabs ≥91 days ⇒91 days () 8 tabs 591 days () 6 tabs ()	A DAD Demographene Newsylate 100	6 tabs	6 tabs	<6 tabs	<6 tabs
5/325 (Percocet) 12 tabs 12 tabs 5/325 (Percodan) 18 tabs 291 days 5/325 (Percodan) 8 tabs 291 days 5 5/500 (Tylox) 8 tabs 8 tabs ne 5/500 (Vicodin) 8 tabs 8 tabs ne 10/650 (Lorcet) 6 tabs 6 tabs	AFAF/FIODOX)piletic tvapsytate 100		≥91 days	≥91 days	<9 days
18 tabs 18 tabs 18 tabs 18 tabs ≥91 days ≥91 days 8 tabs ≥91 days ≥91	(Darwoort)	12 tabs	12 tabs	<12 tabs	<12 tabs
18 tabs	AFAF/Uxycodolle 3/323 (recocci)		≥91 days	≥91 days	<91 days
\$ tabs	A C. A. (O	18 tabs	18 tabs	<18 tabs	<18 tabs
8 tabs 8 tabs ≥91 days 8 tabs 8 tabs ≥91 days 6 tabs 6 tabs ≥91 days	ASAJOXYCOUOLIC 2/2222 (1 croccan.)		≥91 days	≥91 days	<91 days
\$ tabs	A PA D O Company S (SOO (Tylox))	8 tabs	8 tabs	<8 tabs	<8 tabs
8 tabs 8 tabs ≥91 days 6 tabs 6 tabs ≥91 days	AFAF/Oxycodolle 2/200 (1910A)		≥91 days	≥91 days	<91 days
>91 days 6 tabs 6 tabs >91 days	A DAD/II. Arondone 5/500 (Vicodin)	8 tabs	8 tabs	<8 tabs	<8 tabs
orcet) 6 tabs 6 tabs $\geq 91 \text{ days}$	AFAF/II) di ocodolic 2/200 (Trodin)		≥91 days	≥91 days	<91 days
≥91 days	1 D 1 D (II. Jugandana 10/650 (I proet)	6 tabs	6 tabs	<6 tabs	<6 tabs
	AFAF/II) diocodolic 10/050 (Estac)		≥91 days	≥91 days	<91 days
8 tabs	A DAD (Hadroodone) 5/500 (I ortab)	8 tabs	8 tabs	<8 tabs	<8 tabs
≥91 days	AFAF/II) di Occupia 2.5/300 (1501 m2)		≥91 days	≥91 days	<91 days

FIG. 6a

SEETS. OFFISH

	Maritime			
Drug Product	Adult	Positive In	Probable In	Possible In
	Recommended	(120 day timeframe)	(120 day timeframe)	(120 day timeframe)
	Daily Dose			
APAP/Codeine 30/300 (Tylenol-3)	12 tabs	12 tabs	<12 tabs	<12 tabs
		≥91 days	≥91 days	<91 days
Non-Steroidal Anti-inflammatory Drugs (NSAIDs)				
Celecoxib (Celebrex)	4 caps	4 caps	<4 caps	<4 caps
		≥91 days	≥91 days	<91 days
Diclofenac 100mg ER (Voltaren XR)	2 tabs	2 tabs	<2 tabs	<2 tabs
		≥91 days	≥91 days	<91 days
Etodolac Extended Release 400mg (Lodine XL)	3 tabs	3 tabs	<3 tabs	<3 tabs
		≥91 days	≥91 days	<91 days
Naproxen Controlled Release 500mg (Naprelan)	2 tabs	2 tabs	<2 tabs	<2 tabs
		≥91 days	≥91 days	<91 days
Nabumeton 500mg (Relafen)	4 tabs	4 tabs	<4 tabs	<4 tabs
		≥91 days	≥91 days	<91 days
Muscle Relaxants				
Carisoprodol (Soma)	4 tabs	4 tabs	<4 tabs	<4 tabs
		≥91 days	≥91 days	<91 days
Chlorzoxazone (Paraflex)	12 tabs	12 tabs	<12 tabs	<12 tabs
		≥91 days	≥91 days	<91 days
Cylobenzaprine (Flexeril)	6 tabs	6 tabs	<6 tabs	<6 tabs
		≥91 days	≥91 days	<91 days
Diazepam 5mg (Valium)	8 tabs	8 tabs	<8 tabs	<8 tabs
		≥91 days	≥91 days	<91 days
Metaxalone (Skelaxin)	8 tabs	8 tabs	<8 tabs	<8 tabs
		≥91 days	≥91 days	<91 days
Methocarbamol 500 (Robaxin)	8 tabs	8 tabs	<8 tabs	<8 tabs
		≥91 days	≥91 days	<91 days
Orphenadrine Citrate (Norflex)	2 tabs	2 tabs	<2 tabs	<2 tabs
		≥91 days	≥91 days	<91 days

FIG. 6b

Indirect Medical Indicia	Measure	Remarks
1. Physician Office Visits	a. Associated ICD-9-CM or CPT code.	Chronic pain patients
a. Documented reason for visit	b. Medical record notation.	frequently visit the physician
b. Physician specialty	c. Associated time period, either multiple visits within an	office, for pain related reasons
associated with visit	associated period of time; or pattern of visits showing	as well as for complaints of
c. Time period establishing	elapsed period of time (e.g. ≥ 91 days).	non-specific origin.
chronicity		
2. Emergency Room Visits	a. Associated ICD-9-CM or CPT code.	Chronic pain patients
a. Reason for visit	b. Associated time period, either multiple visits within an	frequently present to the ER
b. Time period establishing	associated period of time; or pattern of visits showing	for pain related reasons as
chronicity	elapsed period of time (e.g. ≥ 91 days months).	well as for complaints non-
		specific in origin.
3. Drug Therapy	a. Drug code for drugs (e.g. anti-inflammatory, anti-	Prescription and non-
a. Drug prescription	depressant, muscle relaxant, opioid) associated with	prescription drug use is a
b. Drug combinations	pain symptom treatment.	common indicator of chronic
c. Dosing levels	b. Drug codes, when used in combination, tend to	pain. Such drugs are often
d. Prescription patterns	indicate presence of pain.	provided to patients from a
e. Time period establishing	c. Dosing level consistently high.	variety of sources in an
chronicity	d. Multiple prescribers.	uncoordinated manner, or
f. Pattern of substance abuse	e. Associated time period establishing elapsed period of	without the development of a
	time (\geq 91 days).	patient plan of care.
	f. Evidence of drug over use or use of illegal drugs.	
4. Telephone Consults		Chronic pain patients often
a. Documented reason for call	a. Notation in medical record, associated code if possible.	demand more attention from
b. Frequency of calls	b. Calls outside the defined range of frequency for a	their caregivers than the
c. Pattern of calls	typical patient.	general population, for
d. Time period establishing	c. Clustered calls with a defined time period.	symptom -specific as well as
chronicity	e. Associated time period establishing elapsed period	for non-symptom specific
	of time (\geq 91 days).	reasons.

FIG. 7a

Indirect Medical Indicia	Measure	Remarks
דווחון ככר ועדכחוכשו דווחוכוש	A TACABATA	TATION IN
5. Primary Diagnosis	ICD-9-CM diagnostic code associated with pain	Chronic pain can be identified
	condition or trauma, or with a disease known to have	through diagnostic codes two
	associated pain condition.	ways: the pain can be a
		condition associated with a
		disease state such as diabetes
		(indirect), or it can be the
		primary reason for the pain
		condition such as low back
		pain (direct).
6. Co-Morbidities	ICD-9-CM diagnostic code associated with conditions	Certain co-morbidities are
	known to occur with chronic pain.	known to be associated with
		chronic pain.
7. Hospitalizations		Certain chronic pain patients
a. Time period establishing	a. Associated time period either multiple visits within an	are frequently hospitalized,
chronicity	associated period of time, or pattern of visits showing	either to treat spikes in pain,
b. Admitting diagnosis	elapsed period of time (e.g. ≥ 91 days).	or to receive back-related
c. Procedures performed	b. Associated ICD-9-CM diagnostic code.	procedures.
	c. Pattern of ICD-9-CM and CPT procedure codes.	
8. Evidence of trauma		Numerous chronic pain
a. Diagnostic test associated	a. Test results such as x-ray, contained in medical	indications are trauma-related
with trauma	record.	in origin (e.g. CRPS).
9. Evidence of palliative or		Chronic pain patients receive
rehabilitation care	a. ICD-9-CM procedure codes associated with palliative	a variety of physical therapy,
a. Documented procedure	or rehabilitation care.	chiropractic services,
b. Pattern of care	b. Evidence of care seeking behavior relating to	acupuncture therapy and other
c. Time interval establishing	combination of providers.	similar types of services to
chronicity	c. Associated time period, either multiple visits within an	treat their condition.
	associated period of time; or pattern of visits showing	
	elapsed period of time (e.g. >91 days).	
		The state of the s

FIG. 7b

Non-Medical Indicia	Positive In	Positive Out	Probable In	Possible In
 Patient Self-Assessment - Pain Significantly Interferes with Life Activities 	×			
2. Patient Self-Assessment - High Pain Intensity Rating	×			
3. Patient Self-Assessment - Intense and Multiple Pain Descriptors	X			
4. Patient Self-Assessment - High Impact of Pain on Mood	×			
5. Patient Self-Assessment - Low Family Support			×	
6. Patient Self-Assessment - High Impact of Pain on Ability to Work	×			
7. Patient Self-Assessment - High Impact of Pain on Health Status	×			
8. Patient Self-Assessment - Downward Health Trend			X	
9. Patient Self Assessment - Depression			×	
10. Patient Self-Assessment - Low Life Satisfaction Score			×	
11. Patient Self-Assessment - Low Job Satisfaction Score			×	×
12. Patient Self-Assessment, or Family Assessment - Poor Community			×	×
Support Structure				
13. Patient Self-Assessment, or Family Assessment - Lack of Daytime			×	×
Distractions				
14. Patient is a Smoker			×	
15. Other Behavior Characteristics				X
• Current				
• Past*			,,,,,	
16. Patient Matches Personality/Psychological Risk Profile			X	
17. Pending Litigation Relating to Injury				×
18. Patient is Overweight by more than 25% of Normal Weight			X	
19. Patient's Job is in a High Work Risk Category				X
20. Patient Involved in Recent or Pending Divorce				X

FIG. 8a

DOBLESON DEED OF

Non-Medical Indicia	Positive In	Positive	Probable	Positive In Positive Probable Possible In
		Out	In	
21. Other Demographic Indicators:				×
• Age				
• Gender				
Economic status				
• Race/ethnicity*				
22. Presence of an open workers' compensation claim				×
23. Patient has Hired an Attorney for Representation on a Work-related				×
Injury				

FIG. 8b

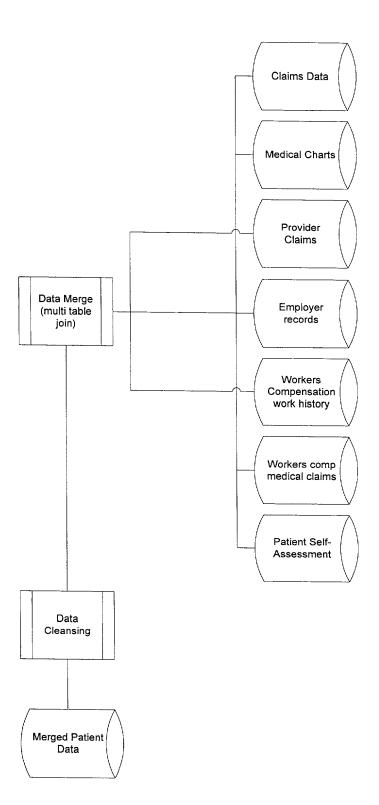


FIG. 9

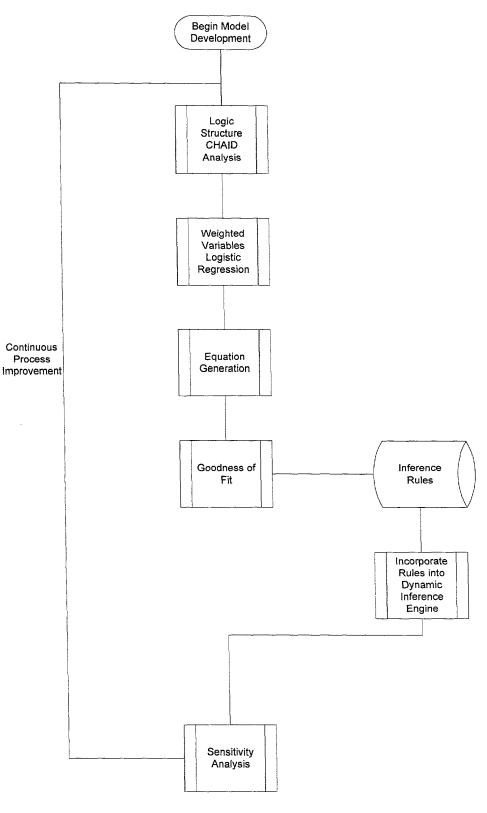


FIG. 10

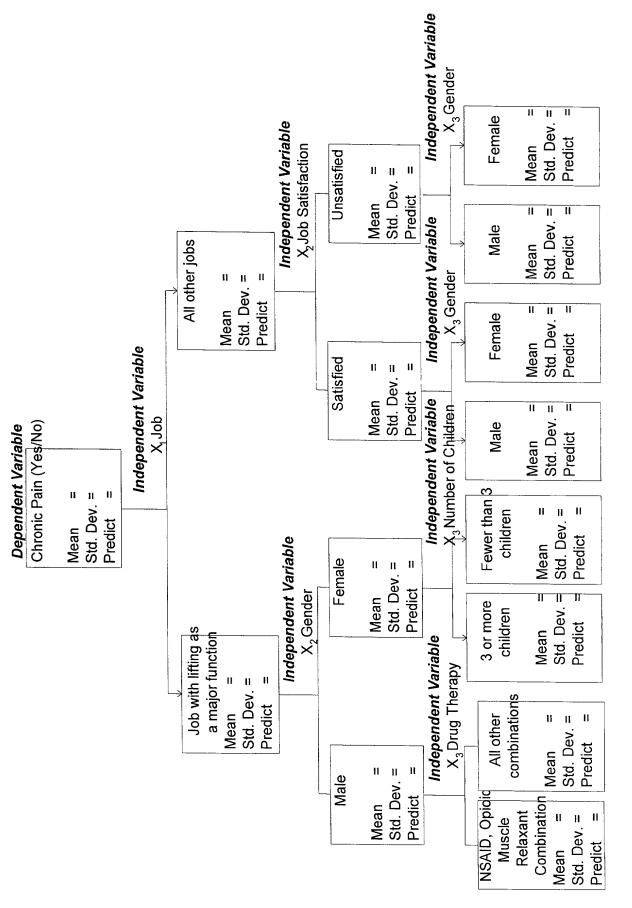


FIG. 11

Pain Indication by Type/Site (Dependent Variable)

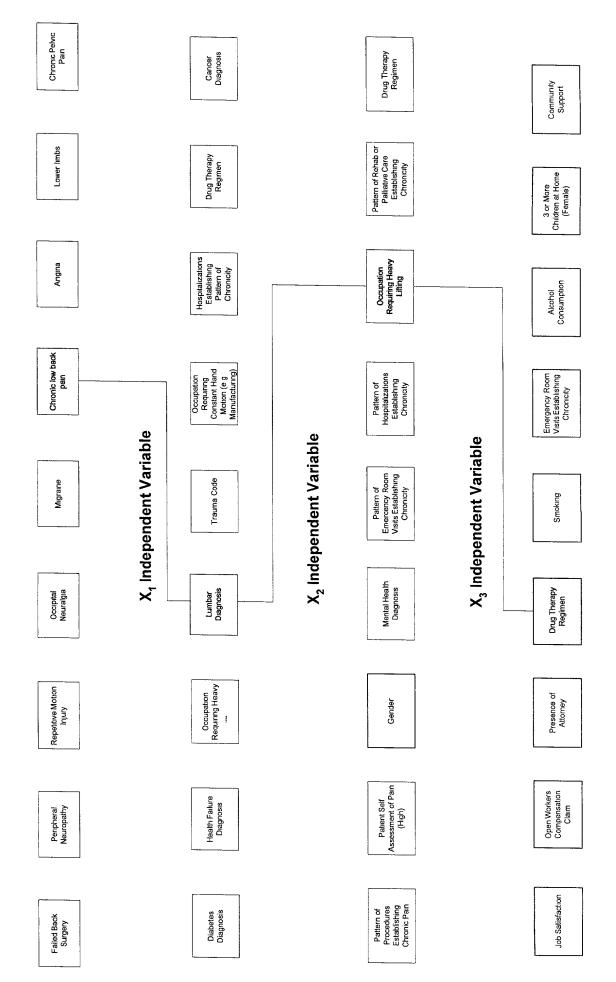


FIG. 12

Logistics Output	Variable	•	
Independent Variable	Parameter	Odds Ratio	P-Value
Constant	(+)		
Occupation Based upon Lifting (X1)	(+)	3.1	P<0.05
Gender (Male) (X ₂)	(+)	2.1	P<0.05
Drug Therapy (X ₃)	(+)	1.9	P<0.05
(X_4)			
(X_5)			

FIG. 13

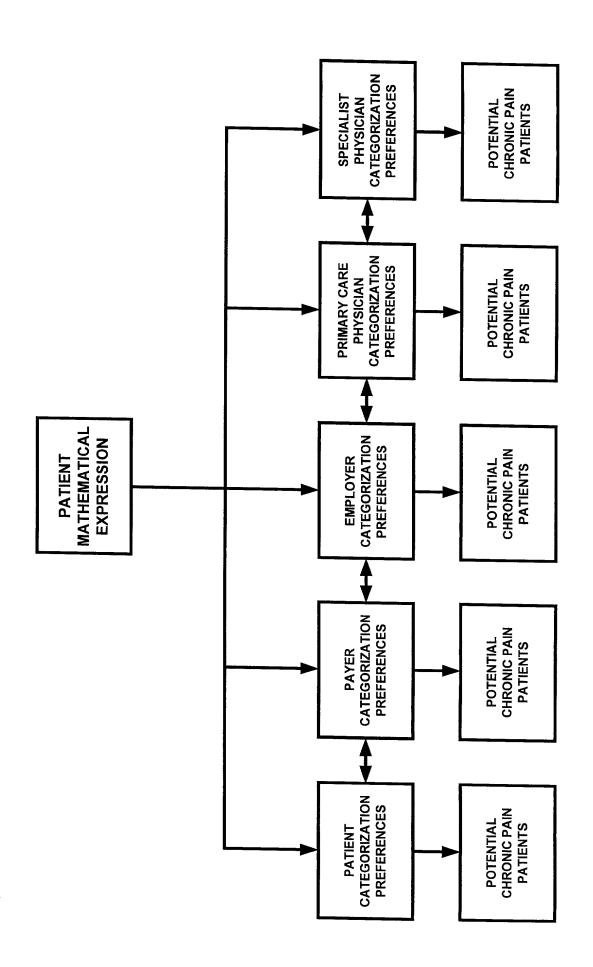


FIG. 14

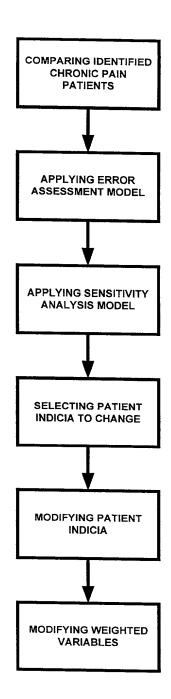


FIG. 15

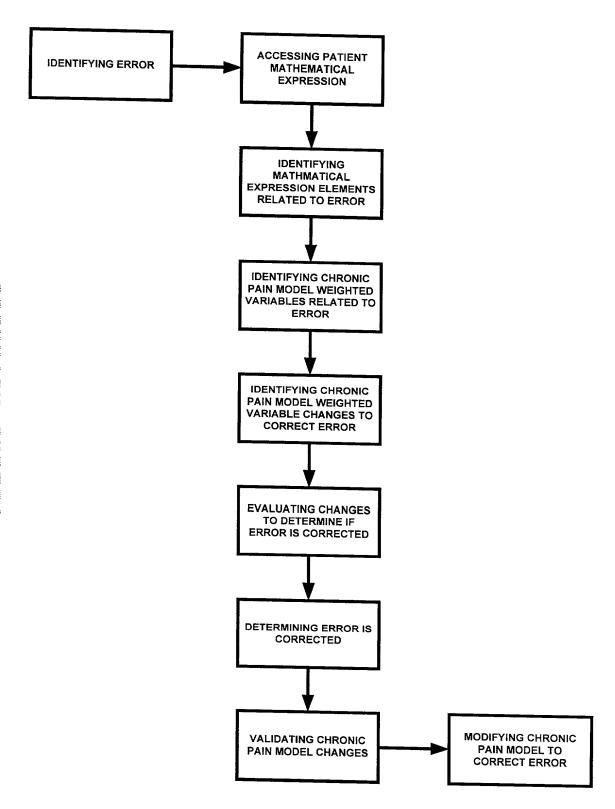


FIG. 16